

III. Gather Data

A. Current Atmospheric Pressure at Sea Level

- Click on the "Weather Graphics" site. Add this page to your Bookmarks or Favorites so you can use it later.
- Scroll to "Sea Level Pressure - Isobars."

2. What is the pressure where you live? (If you have difficulty naming the states, look at the other map.)

Today's pressure is _____ millibars.

3. What state(s) has the highest pressure on the map?

4. What state(s) has the lowest pressure on the map?

- Close the "Isobars" map and click on "Sea Level Pressure with Wind Vectors" map.

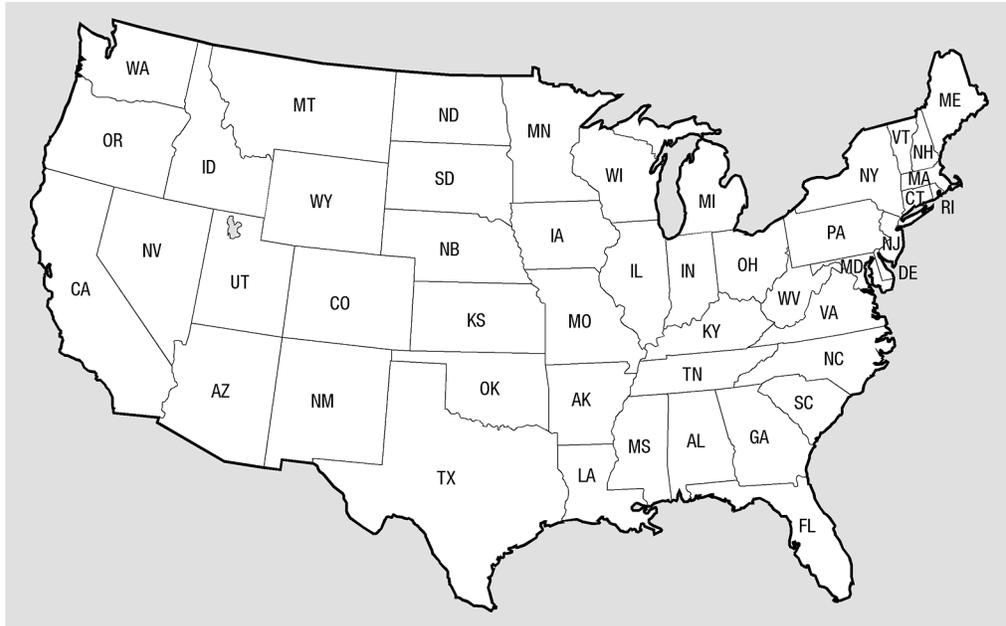
4. What states should have the highest winds?

5. What direction are the highest winds blowing from?





6. What is the interval (pressure difference) between two adjacent (side by side) isobars? _____ millibars
7. Using your knowledge of pressure and clouds, draw clouds on the U.S. Continental map where you think it would be cloudy.



- To check your work, click on "Sea Level Pressure with IR Satellite & Wind Vectors" map.
- Close the "Sea Level Pressure with IR Satellite & Wind Vectors" map to return to the "Weather Graphics" site.

B. Current Temperature at Sea Level



- Click on "Surface Temperature - Temperature Contours" map.

1. Where is the coldest temperature on the map?





2. Where is the hottest temperature on the map?

- Close the "Surface Temperature - Temperature Contours" map.

C. Wind Maps



- Click on "Surface Observations - United States" map.
- To read this map, remember how wind barbs are drawn to show the direction of the wind.

1. Where is the wind blowing the strongest?

2. Where is an area of calm air surrounded by wind?



- Close the "Surface Observations - United States" map.
- Click "Back" to return to the Forecasting "Gather Data.2" page.
- Scroll to the bottom of the page and click "Forward" to go to the "Gather Data.3" page.



D. Rainfall



- Click on the "Daily Weather Map - Rainfall" site.
- Click on the maps image.
- Scroll to the bottom of the page and click on the "24-hr Precipitation" map.



1. How many inches of rain have fallen in your area during the past 24 hours? _____ in





2. What is the relationship between the areas where it is raining and the pressure in those areas?



- Click "Back" until you return to the Forecasting "Gather Data.3" page.

E. Satellite Cloud Picture

- Click on the "Satellite Images" site.
- Click on "Visible" in the "East CONUS" column to view the Eastern part of the U.S. (The "CONUS" stands for the continental U.S.)
- Click on "Visible" in the "West CONUS" column to view the Western part of the U.S.



1. Did you draw the clouds where they actually are when you answered Question 7 in "Gather Data, Section A"? _____



- Click "Back" to return to the Forecasting main page, or choose "Forecasting" from your Favorites or Bookmarks.
- Click "Application".